

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

What is claimed is:

Claim 1 (original): A light emitter comprising:
a tube having a first end and a second end;
a first aperture located proximate said tube first end;
a second aperture located proximate said tube second end;
a lens located within said tube;
a base mechanism attached to said tube first end, said base mechanism having a cavity formed therein; and
a light path extending between said cavity and said second aperture, said light path passing through said first aperture and through said lens.

Claim 2 (original): The light emitter of claim 1 and further comprising a light source located within said base mechanism cavity, said light source being intersected by said light path.

Claim 3 (original): The light emitter of claim 1, wherein said first aperture is smaller than said second aperture.

Claim 4 (original): The light emitter of claim 1, wherein said first aperture is formed by a member that partially encloses said tube first end.

Claim 5 (original): The light emitter of claim 4, wherein said member has a first side facing said tube first end and a second side facing away from said tube first end, wherein said first aperture is conical, the portion of said first aperture on said

member first side being smaller than the portion of said aperture on said member second side.

Claim 6 (original): The light emitter of claim 1, wherein said lens is a collimating lens.

Claim 7 (original): The light emitter of claim 1, wherein said lens is a symmetrical convex lens.

Claim 8 (original): The light emitter of claim 1, wherein said lens is an asymmetrical convex lens.

Claim 9 (original): The light emitter of claim 1, wherein said lens has a focal length associated therewith and further comprising a light source, wherein said light source is located at a preselected location relative to said lens focal length.

Claim 10 (original): The light emitter of claim 1, wherein said tube has an inner surface, said inner surface having a first portion and a second portion, wherein the diameter of said first portion is different than the diameter of said second portion, and wherein the junction of said first portion and said second portion forms a step.

Claim 11 (original): The light emitter of claim 10, wherein said lens abuts said step.

Claim 12 (original): The light emitter of claim 10, wherein said lens has a lens surface and a lens edge abutting said lens surface, said lens surface having a flat circumference portion extending from said lens edge, and wherein said lens flat circumference portion abuts said step.

Claim 13 (original): The light emitter of claim 10, wherein said tube first portion has a length of about 20.9 millimeters.

Claim 14 (original): The light emitter of claim 10, wherein said tube second portion has a length of about five millimeters.

Claim 15 (original): The light emitter of claim 10, wherein said diameter of said tube first portion is about 7.66 millimeters.

Claim 16 (original): The light emitter of claim 10, wherein said diameter of said tube second portion is about 8.65 millimeters.

Claim 17 (original): The light emitter of claim 1, wherein said lens has a focal length of about 22.5 millimeters.

Claim 18 (original): A light sensor comprising:

a light emitter comprising:

- a tube having a first end and a second end;
- a first aperture located proximate said tube first end;
- a second aperture located proximate said tube second end;
- a lens located within said tube;
- a base mechanism attached to said tube first end, said base mechanism having a cavity formed therein;

a light receiver; and

a light path extending between said cavity and said receiver, wherein said light path passes through said tube first aperture, through said lens, and through said tube second aperture.

Claim 19 (original): The light sensor of claim 18, wherein said cavity has a light source located therein and wherein said light path intersects said light source.

Claim 20 (original): The light sensor of claim 19, wherein said light source is adapted to emit light having a preselected band of wavelengths and wherein said light receiver is adapted to detect light having said preselected band of wavelengths.

Claim 21 (original): The light sensor of claim 20 and further comprising a light filter located in said light path, said light filter being adapted to pass light having said preselected band of wavelengths.

Claim 22 (original): The light sensor of claim 18, wherein said first aperture is smaller than said second aperture.

Claim 23 (original): The light sensor of claim 18 wherein said first aperture is formed by a member that partially encloses said tube first end.

Claim 24 (original): The light sensor of claim 23 wherein said member has a first side facing said tube first end and a second side facing away from said tube first end, wherein said first aperture is conical, the portion of said first aperture on said member first side being smaller than the portion of said first aperture on said member second side.

Claim 25 (original): The light sensor of claim 18, wherein said lens is a collimating lens.

Claim 26 (original): The light sensor of claim 18, wherein said lens is a symmetrical convex lens.

Claim 27 (original): The light sensor of claim 18, wherein said lens is an asymmetrical convex lens.

Claim 28 (original): The light sensor of claim 18, wherein said lens has a focal length associated therewith and further comprising a light source located at a preselected location relative to said lens focal length.

Claim 29 (original): The light sensor of claim 18, wherein said tube has an inner surface, said inner surface having a first portion and a second portion, wherein

the diameter of said first portion is different than the diameter of said second portion, and wherein the junction of said first portion and said second portion forms a step.

Claim 30 (original): The light sensor of claim 29, wherein said lens abuts said step.

Claim 31 (original): The light sensor of claim 29, wherein said lens has a lens surface and a lens edge abutting said lens surface, said lens surface having a flat circumference portion extending from said lens edge, and wherein said lens flat circumference portion abuts said step.

Claim 32 (original): An autochanger comprising:

at least one media holding bay;

a light emitter comprising:

a tube having a first end and a second end;

a first aperture located proximate said tube first end;

a second aperture located proximate said tube second end;

a lens located in said tube;

a base mechanism attached to said tube first end, said base mechanism having a cavity formed therein;

a light source located in said cavity adjacent said first aperture;

a light receiver; and

a light path extending between said light emitter and said light receiver, at least a portion of said light path being adjacent said at least one media holding bay.

Claim 33 (original): The autochanger of claim 32, wherein said light source is adapted to emit light having a preselected band of wavelengths and wherein said light receiver is adapted to detect light having said preselected band of wavelengths.

Claim 34 (original): The autochanger of claim 33 and further comprising a light filter located in said light path, said light filter being adapted to pass light having said preselected band of wavelengths.

Claim 35 (original): The autochanger of claim 32, wherein said first aperture is smaller than said first aperture.

Claim 36 (original): The autochanger of claim 32 wherein said first aperture is formed by a member that partially encloses said tube first end.

Claim 37 (original): The autochanger of claim 36, wherein said member has a first side facing said tube first end and a second side facing away from said tube first end, wherein said first aperture is conical, the portion of said first aperture on said member first side being smaller than the portion of said aperture on said member second side.

Claim 38 (original): The autochanger of claim 32, wherein said lens is a collimating lens.

Claim 39 (original): The autochanger of claim 32, wherein said lens is a symmetrical convex lens.

Claim 40 (original): The autochanger of claim 32, wherein said lens is an asymmetrical convex lens.

Claim 41 (original): The autochanger of claim 32, wherein said lens has a focal length associated therewith and wherein said light source is located at a preselected location relative to said lens focal length.

Claim 42 (original): The autochanger of claim 32, wherein said tube has an inner surface, said inner surface having a first portion and a second portion, wherein the diameter of said first portion is different than the diameter of said second portion, and wherein the junction of said first portion and said second portion forms a step.

Claim 43 (original): The autochanger of claim 42, wherein said lens abuts said step.

Claim 44 (original): The autochanger of claim 42, wherein said lens has a lens surface and a lens edge abutting said lens surface, said lens surface having a flat circumference portion extending from said lens edge, and wherein said lens flat circumference portion abuts said step.

Claim 45 (currently amended): An autochanger comprising:
at least one media holding bay;
means for producing a substantially collimated light beam; and
means for detecting said substantially collimated light beam; and
a light path associated with said substantially collimated light beam extending between said light emitter and said light receiver, at least a portion of said light path being adjacent said at least one media holding bay.

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